

Method and Apparatus for Transmission of Digital and Analog

Abstract of the Disclosure

A modem-controller for auto switching and controlling the transmission and receiving of analog and error-free transmission of standard digital signals, fax digital signals and analog communications over telephone line service, radio frequency networks, satellite systems, as well as wireless telephone systems includes analog switches that receive control signals from the micro-controller for controlling and switching the analog or digital path of an internal analog board and the signals from a modem to and from a radio frequency transceiver via a radio frequency transceiver interface/logic board, a wireless telephone transceiver via a wireless telephone transceiver interface, a telephone landline via a telephone line interface, a satellite system via a telephone landline through the telephone line interface. A method selects the telephone line interface which either connects to the telephone line, the satellite system or the wireless telephone, and another method bypasses the telephone line interface, selects and controls radio frequency telemetry modules or packet radios. The operation of the modem-controller is divided into three modes comprising a command mode, a digital mode and an escape mode. The software is a set of digital communication protocols which provide error-free communication of digital and define a file transfer protocol at the application layer, the session protocol and the link protocol.

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